

ABSTRACT OF THE DISCLOSURE

A primary part of an air-cooled electric motor, in particular a linear motor, includes a modular block with a winding body and windings housed in a sealed housing. Cooling air flows through cooling channels around the windings and through tooth gaps in the winding body. The primary part can be produced by coating the housing and a cover with a sealing composition and embedding the modular block at least partially in the sealing composition. Alternatively, the primary part can be produced by embedding the winding region of the winding body first in a first molding composition, and subsequently in a second molding composition which has a higher melting point than the first molding composition. The first molding composition is then melted and removed. The thereby produced cavities form gas inlets and outlets and gas flow paths for air cooling the interior of the primary part.